

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Re the application of: J. Don Chen

Serial No.: 09/819,104

Filed: March 27, 2001

For: *NOVEL NUCLEAR RECEPTOR  
COREPRESSOR MOLECULES AND USES  
THEREFOR*

Attorney Docket No.: UMG-030

Group Art Unit: 1645

Examiner: Not Assigned

Box Missing Parts  
Commissioner for Patents  
Washington, D.C. 20231Certificate of Express MailingExpress Mail® mailing label number EL 941 615 309 USDate of Deposit April 1, 2002

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Signature

Ilidio P. Cardoso

Please Print Name of Person Signing

**PRELIMINARY AMENDMENT AND RESPONSE TO NOTICE OF INCOMPLETE REPLY  
(NONPROVISIONAL)**

Dear Sir:

In response to the Notice of Incomplete Reply (Nonprovisional) mailed from the Patent Office on March 13, 2002, and prior to examination of the above-identified application, please amend the application as follows:

**In the drawings:**

Please replace Figures 1 (1 sheet) and 3 (1 sheet) as originally filed, with corrected Figures 1 (3 sheets) and 3 (1 sheet) filed herewith.

**REMARKS**

Applicants have amended Figures 1 and 3 solely to comply with the margin requirements set forth in the Notice of Incomplete Reply (Nonprovisional). Applicants believe all remaining figures are in compliance with the drawing requirements. No new matter has been added.

In further response to Notice of Incomplete Reply (Nonprovisional), Applicants submit concurrently herewith to Box Sequence Listing a substitute diskette containing a computer readable form of the Sequence Listing filed March 27, 2001 for the above-referenced patent application, and a separate transmittal letter for the substitute diskette, containing the required verification statement. Applicants note that the Sequence Listing as filed on March 27, 2001 complied with the requirements of 37 C.F.R. § 1.821. However, the diskette as originally filed produced misaligned numbering not present in the originally filed paper copy. Also enclosed is a copy of the Notice of Incomplete Reply (Nonprovisional).

Please charge any necessary fees to our Deposit Account No. 12-0080. The undersigned requests any extensions of time necessary to respond. *A duplicate of this sheet is enclosed.*

**CONCLUSION**

In view of the amendments and remarks set forth above, it is respectfully submitted that this application is in condition for allowance. If there are any remaining issues or the Examiner believes that a telephone conversation with Applicant's Attorney would be helpful in expediting prosecution of this application, the Examiner is invited to call the undersigned at (617) 227-7400.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP



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Date: April 1, 2002



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**TRANSMITTAL LETTER FOR DISKETTE CONTAINING SEQUENCE  
LISTING**

Dear Sir:

Enclosed is a substitute diskette which contains a computer readable form of the Sequence Listing as originally filed on March 27, 2001 for the above-referenced patent application. Applicants note that the paper copy of the Sequence Listing as originally filed complied with the requirements of 37 C.F.R. § 1.821. However, the diskette filed on even date produced misaligned numbering not present in the originally filed paper copy. The material on substitute diskette enclosed herewith is identical in substance to the Sequence Listing as originally filed, as required by 37 C.F.R. § 1.821(f). The computer readable form of the Sequence Listing contained on the enclosed diskette is understood to comply with the requirements of § 1.824(d). No new matter has been added.

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Date of Deposit April 1, 2002

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Box Missing Parts/Commissioner for Patents, Washington, D.C. 20231

Signature

Ilidio P. Cardoso

Please Print Name of Person Signing

Respectfully submitted,

LAURO & COCKFIELD, LLP

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Fig. 1-1

h: 1 MSSTQPVQWATERPRYPHSISVFOIARHTDVGLEYOHSRDIYASHSPGSIIOQRRRSLLSEFQGNERSOELHLPDSHSYUPLGKSM  
m: 1 -A-----GI-----S-----P-T-----S-----RTF-----PDI  
h: 101 EFTEKPRLELLPDLRPSPLANGQAGSEDLTKORSITGKLEPSPSPDHTDELELVPPRLSKELLQN.MDRVDREITWVEQQISKKKKQQ  
m: 101 --T-----T-----S-----A-----A-----A-S-----RL-----R-  
h: 200 LEEEAAPPEPEKVPSPPIESKHSRLVQIYDENEKKAERHLEGLQPOVLPLVYQPSDTROYHENIKINQAMEKKLILYFKENHARKQWEQEC  
m: 201 -----R-----  
h: 300 QRYDQLEAMEKKVERIENNPRAKESKVREYEQFPEIRKQELQERMQ.RVGQSGGLSNPSAKSEHYSEIIDGLSEQENLEKQMBQLAVIPML  
m: 301 -----S-----A-----RHVV-----RHVV  
h: 399 YDADQORIKFINNGJAMPKVYDKQVMWMSQEKETFREKFQHPKNGFLIASFLERKTVAECVILYTLTKNENYKSLVRSYRRGSKSQOQQQ  
m: 401 .RR-----D-----T-----RD-----  
h: 499 QOQOQOQOQOQMPRSPQBEKDEKEKEKEKEKEKEKEKEKEDLLKKTDDTSGEDNDEKAVASKRGTANGQRRKGRITRSMANEANSEAITPQ  
m: 500 -----A-----E-----D-----QDA-E-E-S-----H-TA-----  
h: 599 QSAELASWELNESGRTEEMETAKGELLEGRNWSAJARWGSKTYSOCKYFVNYKRQNLDEILQOHLKMEKERNARKKKKAPAAASEEAPPPV  
m: 596 --S-----N-----T-----T-----  
m: AC: --S-----M-----HQTGFGARLLTQOELBAPISPTQLOPHSRPHSPKECTPPCQSGPAGAILGLSAPRKDSK\*  
h: 699 VEDEMEASGVTGNEEEMVEAEAT.....VNNSDTEISIPSPHTEAAKDTQNGKPPATLGDGPPGPPPTPPPIDAPTSTP  
m: 696 A-----SA-----LA-----SQASNEVPRVCEGSPAA-----V--RS--T-----G-EALPATOP-VP-E-PA-A--A-RS-  
h: 781 ASEATLPTPPPPPPPPVVPVPEKEKEETAAPVEGEQKPPAAEBLAVDTGKABEP.....VKSECTEEAEGPA.KGKDAEAAETAEE  
m: 793 VPD-SGPPS-E-S-S-AA--AT-D-D-Q-APA-P-QT-DAK-----SEAE-----I-V--P-----EASEPPES---DHK--T--E-ED-A-GT--I-TVS-  
h: 871 RAKAEKKEGGSGRATTAKSGAQDSSSATCSADVEDEABGDKNRLSPSLLTPTGDPNANSPKPLDLKQKORAAIPIQVTKVHEPPRED  
m: 889 AP--V-.EAGSKAAV-KGS---T-----P-----G-----A-----ST-----

Fig. 1-2

MEANDRHP->(SMRT)

h: 971 AAPTAPAPPAPPONLOPESDAPQOGSSPRGKSSPAPPADKAEKPVFFPAFAEAQKLPDPCWTSGLPFPVPPREVIKASHPADPSAFSAPP  
m: 987 TV-P--V--V--T-H--G-VS--S-G--E--A-----PT-G-SYRLS-HA.GHR--SH-----T-TR-----L--T--  
h: 1071 GHZPLGLHDTARPVLPRTTISNPPLISSAKHPSVLERQICAI SQGMSVQLHVPVSEHAKAPVPTMGLPLMDPKLAPPSGVKQEQLSPRQAGP  
m: 1083 -----S-----G-----R--H-----M--L--E--AV-----GTALADPPVEA--ASQ..  
h: 1171 PESLGVPFAOASVLRGTA LGSVFGSITKGIPTSFVSDSAITYRGSIIHTGTPADVLYKGTITRIIGEDSPSLDRGREDSLPKGHVIVEGKKGHVLSY  
m: 1179 .....Y-CC-R-QLQRLYH.....PR-----S-V-----A--T-----  
h: 1271 EGGMSVTCQSKEDGRSSGPPHETAAPKRTYDMWEGRVGRAISSASTEGIMGRAIPPEHSPHLEQHHIRGSIQTGIPRSYVEAQEDYLREAKLLKR  
m: 1243 -----S-----TVT-----Q-----  
h: 1371 EGTTPPPPSRDLTEAYKTQ...ALGPLKAPAEGLVATVKEAGRSIHEIPRELRHTPELPIAPRPLKEGSIQTGPLKYDTGASTTGSKKHVRSLI  
m: 1341 -----P-----T--V-----R-----S-PS-T-----  
h: 1468 GSGRTTPPVHPLDVMADARALEACYESLKRGCTASSGSGIARGAPVIVPELKGKQSPLTVEDHGAPFAGHLPRGSPVTTREPTPLQEGSLSS  
m: 1441 -----P-AL---I-----S-S-GA--T--V-----TS-----L--  
h: 1568 KASQQRKITSPREIAKSPHSTVPEHHPHPTISPYEHLRLRGVSDVLYRSHIPLAPDFTSIRGPILD-AAAAYILPHRLAPNTPVPHLYPPLYIRGYDPT  
m: 1541 -----T-----G-----EA-----S-----

h: 971  
m: 987  
h: 1071  
m: 1083  
h: 1171  
m: 1179  
h: 1271  
m: 1243  
h: 1371  
m: 1341  
h: 1468  
m: 1441  
h: 1568  
m: 1541

Fig. 1-3

M-> (TRAC1)

h:1667 AALNRQTIINDYITSQQMHHNTATAMQADMLRGLSPRESSLALNVAAGPRGIILDSQVPHLVPLVPTTGTATAMORLAYLPTAQPPFSRRHSSP  
m:1641 -----A-S-----S-----I-----P-----H-----

h:1767 LSPGGPHTLTKPTTSSSERDRDRDREREKSLTSTTTVEHAPINRPGTEOSSGSSGGGGSSRPASHAHQHPISPRITQDALQQRFS  
m:1741 -----A-----A-----E-E-----G-----

h:1867 VLEHTGMKGIITAVEPSKPTVLRSTSTSSVVRPAATFPATHCPLGGTLGVVPLMEFVLLPKEAPRVARPERPADTGHAFKAPARSGLFPASSFS  
m:1825 -----S---VV-S---GT-----E-----TS-----V-G-----T-----

h:1967 KGSEPRPLVPVYSGHATIARTPAKNLAPHASDPDPAPPASADPHREKTQSKPFSIQEILRSLGYH GSSYSPGVEYFVSPVSSPLTHDKGLPKHLE  
m:1922 -S-----S-A-S-S-TA-----S-----G-T---L-----S-AG---D---I-----S-P--

h:2066 ELDKSHLEGLRPGKQPGVKLGGEAHLPLRLPIPSQPSSEPLLQTAGVKGHQRVVTLAQHISEVITQDYTRHPQOLSAPLPAPLYSPFGASQFVLD  
m:2021 --E-----H-----M--SA-----I-----G-----

h:2166 LRRPPSDLYLPDPDHGARGSPHSEGGKSPENKTSVLGGEDGIEPVSPGCMTEPHSRSAVYLLYRDGQTEPSRMGSKSPGNTSQPPAFPSKL  
m:2121 -----T---T-----S---SS--A-----A-----G-----

h:2266 TESNAMYKSKQEIINKKLNTNRNRPENTISQGTETFNMPAITGTGLMYRQAVQEHASTNMGLEAIRKALMGKYQWEEPSPLSANAFNPLNAA  
m:2220 -----G-----A-----A---C-----P---G-----

h:2366 SLP.AAMPITRADGRSDHILTSFGGGGKAKVSGRPSRKAKSPAGGLASGDPPSVSSVHSEGDCHRRTPLTNRVWEDRFSAGSTFPFNPPLINRLQAG  
m:2320 -----A-----T-----A-----

h:2465 VMASPPPGLPAGSLAGPHANDEPKPLCSQVETLSDSE 2507  
m:2420 -----A----- 2462

1667 1641 1767 1741 1867 1825 1967 1922 2066 2021 2166 2121 2266 2220 2366 2320 2465 2420

Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a screen displaying a target (a red dot) and a starting point (a green dot). The subject's hand is positioned at the starting point, and the target is located at a distance of 10 cm from the starting point. The subject is instructed to move the hand to the target as quickly and accurately as possible. The screen is positioned at a distance of 10 cm from the starting point. The subject's hand is positioned at the starting point, and the target is located at a distance of 10 cm from the starting point. The subject is instructed to move the hand to the target as quickly and accurately as possible. The screen is positioned at a distance of 10 cm from the starting point.

